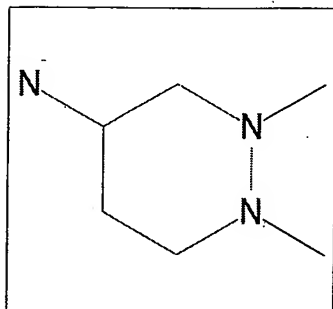


EXHIBIT A



Substance Identification

Beilstein Registry Number	7072873
Chemical Name	1,2-dimethyl-4-aminopiperidazine
Autoname	1,2-dimethyl-hexahydro-pyridazin-4-ylamine
Molecular Formula	C ₆ H ₁₅ N ₃
Molecular Weight	129.20
Lawson Number	29529, 3633
Type of Substance	heterocyclic
Constitution ID	6025383
Tautomer ID	6630722
Beilstein Reference	6-25

Field Availability List 1-5

Code	Field Name	Occ.
<u>RX</u>	Reaction	1
<u>CDER</u>	Derivative	1
<u>BP</u>	Boiling Point	1
<u>NMR</u>	NMR Spectroscopy	1
<u>CNR</u>	Reference	1

Reaction

Reaction ID	3979540
Reactant BRN	7072873 1,2-dimethyl-hexahydro-pyridazin-4-ylamine
	473192 4-nitro-benzoyl chloride
Product BRN	7080462 N-(1,2-dimethyl-hexahydro-pyridazin-4-yl)-4-nitro-benzamide
No. of Reaction Details	1
Reaction Classification	Preparation
Yield	67 percent (BRN=7080462)
Solvent	CHCl ₃
Other Conditions	Ambient temperature
Find similar reactions	<u>click here</u>

Ref. 1	5927638 ; Journal; Kornet, M.J.; Ali, K. Abdul-Nabi; Steinberg, Mitchell I.; JHTCAD; J. Heterocycl. Chem.; EN; 31; 4; 1994; 967-972.
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VALUE (BP) C	Pressure (.P) Torr	Entry Date	Note	Ref.
92 - 95	10			1

Ref. 1

5927638; Journal; Kornet, M.J.; Ali, K. Abdul-Nabi; Steinberg, Mitchell I.; JHTCAD; J. Heterocycl. Chem.; EN; 31; 4; 1994; 967-972.

NMR Spectroscopy

Description

Nucleus

Solvents

Chemical shifts

¹H

CDCl₃

Ref. 1

5927638; Journal; Kornet, M.J.; Ali, K. Abdul-Nabi; Steinberg, Mitchell I.; JHTCAD; J. Heterocycl. Chem.; EN; 31; 4; 1994; 967-972.

Reference

5927638; Journal; Kornet, M.J.; Ali, K. Abdul-Nabi; Steinberg, Mitchell I.; JHTCAD; J. Heterocycl. Chem.; EN; 31; 4; 1994; 967-972.